

Rapid Watershed Assessment Youghiogheny Watershed

Rapid watershed assessments provide initial estimates of where conservation investments would best address the concerns of landowners, conservation districts, and other community organizations and stakeholders. These assessments help landowners and local leaders set priorities and determine the best actions to achieve their goals.





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Preface

The Natural Resources Conservation Service (NRCS) is initiating rapid watershed assessments in order to increase the speed and efficiency generating resource information to guide conservation implementation, as well as the speed and efficiency of putting it into the hands of local decision makers. While these rapid assessments provide less detail and analysis than full-blown studies and plans, they do provide a foundation for watershed studies or area planning. In addition, the assessments provide the benefits of NRCS locally-led planning for resource conservation and conservation program implementation in less time and at a reduced cost than more complex studies.

Rapid watershed assessments will be valuable for Farm Bill program delivery, and provide useful information for county, watershed and regional planners. These assessments provide initial estimates of where conservation investments would best address the concerns of landowners, conservation districts, and other community organizations and stakeholders. These assessments can help landowners and local leaders set priorities and determine the best actions to achieve their goals.

To produce the assessments, quantitative and qualitative data is collected and organized to create a watershed profile using Geographic Information System (GIS) technology. The data is analyzed to allow resource concerns and conditions to become apparent, and to generate maps and information to help people make better decisions about conservation needs and programs.

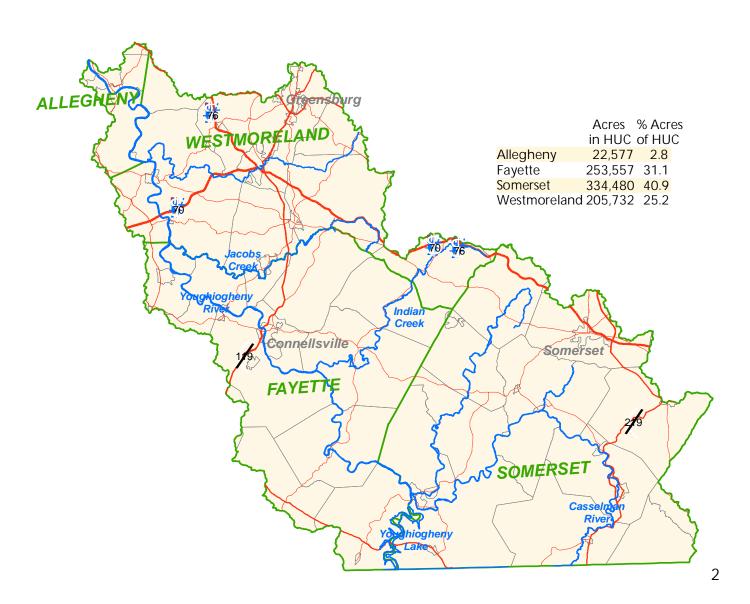
/s/ Craig R. Derickson
Pennsylvania State Conservationist





Introduction

The Youghiogheny Watershed is located in Southwest Pennsylvania in portions of Allegheny, Fayette, Somerset, and Westmoreland Counties. The Youghiogheny Watershed extends into Maryland and West Virginia, although Pennsylvania contains 72% of the entire watershed. The watershed is almost 1,132,000 acres in size, almost 816,400 acres in Pennsylvania, of which almost 195,500 acres is farmland. Four Service Centers of the Natural Resources Conservation Service, four county Conservation Districts and portions of the Penn's Corner and Southern Alleghenies Resource Conservation and Development Council provide conservation assistance in this watershed.



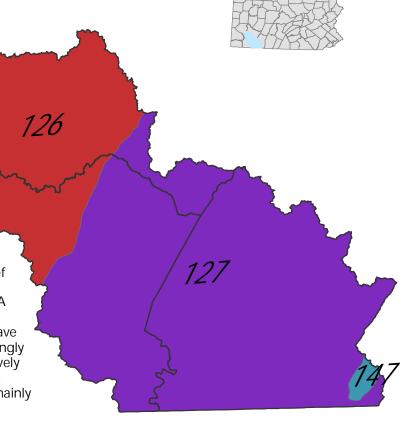


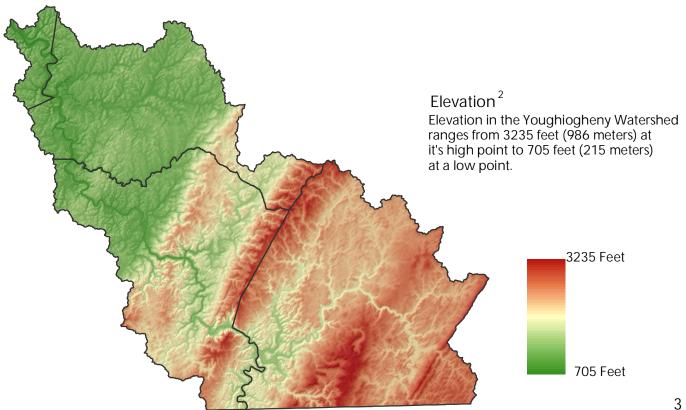
Common Resource Area (CRA)¹
126 - Central Allegheny Plateau: This CRA is on a dissected plateau that is underlain mainly by horizontally bedded sedimentary rocks. Narrow, level valleys and narrow, sloping ridge tops are separated by long, steep and very steep side slopes. Soils are mainly shallow to very deep, excessively drained to somewhat poorly drained, and skeletal to clayey. Most farms in the CRA are beef cattle and diary farm operation.

127 - Eastern Allegheny Plateau and Mountains:
This CRA is on a dissected plateau with steep slopes and level to gently rolling areas in the northern part. Soils are moderately deep to very deep, excessively drained to somewhat poorly drained, and loamy. Corn, small grain, and feed for diary and beef

cattle are the principle crops grown.

147 - Northern Appalachian Ridges and Valleys: This CRA is a folded and faulted area of parallel ridges and valleys. The ridges are strongly sloping to extremely steep and have narrow, rolling crests. The valleys are mainly level to strongly sloping. Soils are shallow to very deep, generally excessively drained to moderately well drained, and loamy or clayey. Cropland in the area is used for a wide variety of crops, mainly corn, small grain, and forage for diary and beef cattle.

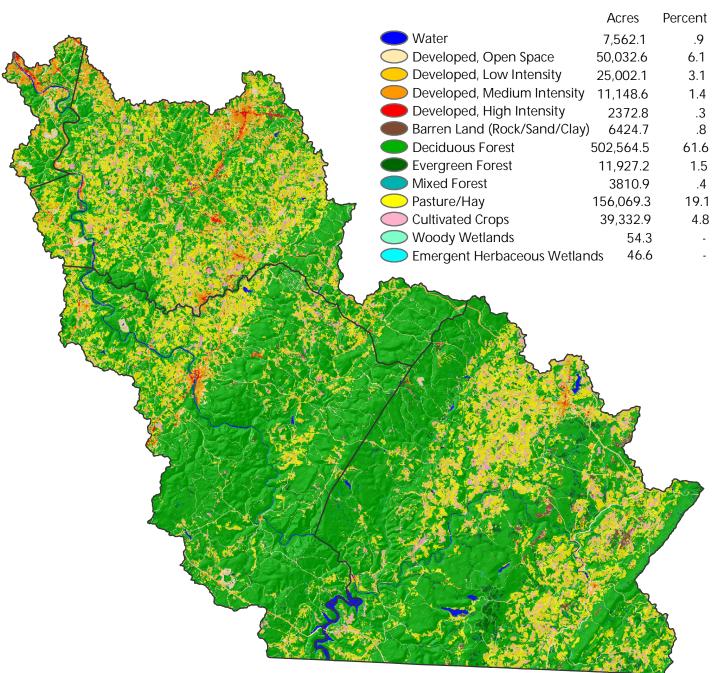




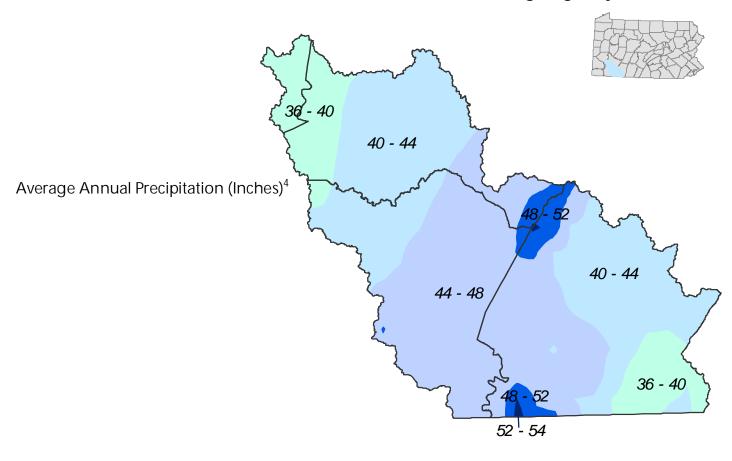


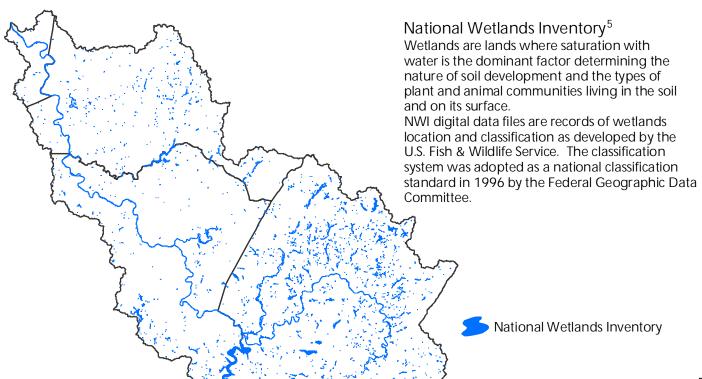


Land Use / Land Cover 2001³







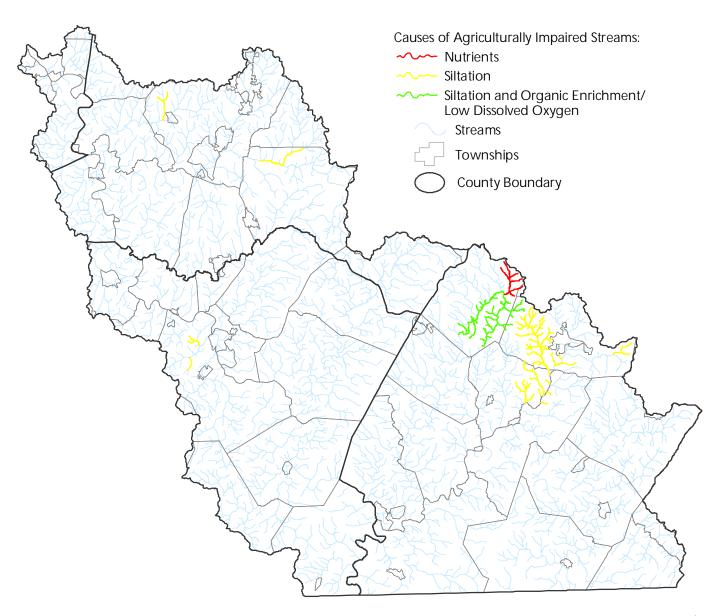






Impaired Streams ⁶

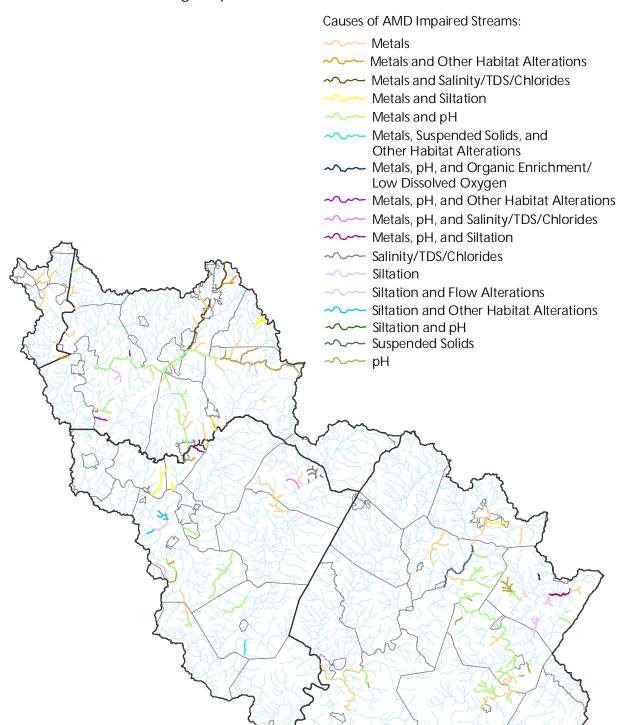
The Streams Integrated List (2006) represents stream assessments in an integrated format for the Clean Water Act Section 305(b) reporting and Section 303(d) listing. PA Department of Environmental Protection protects 4 stream water uses: aquatic life, fish consumption, potable water supply, and recreation. The 305(b) layers represents stream segments that have been evaluated for attainment of those uses and determine which streams are non-attaining.







Abandoned Mine Drainage Impaired Streams

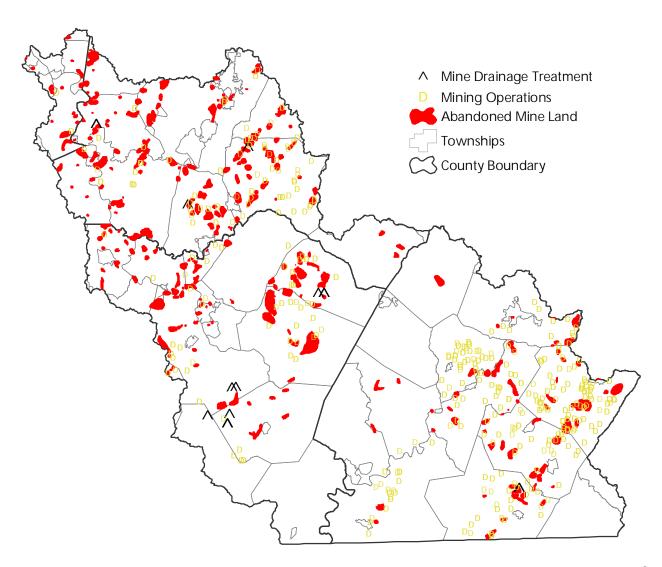




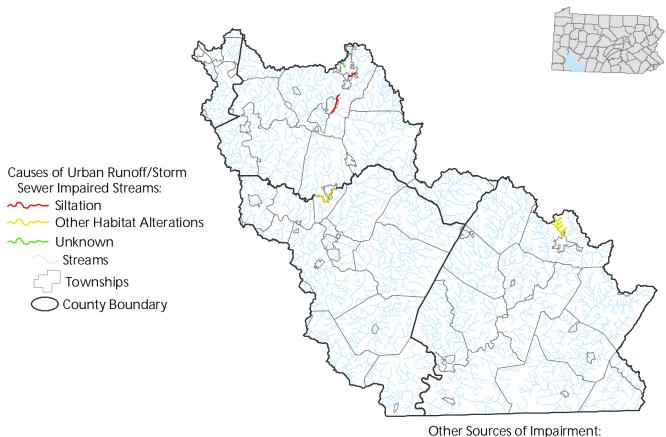


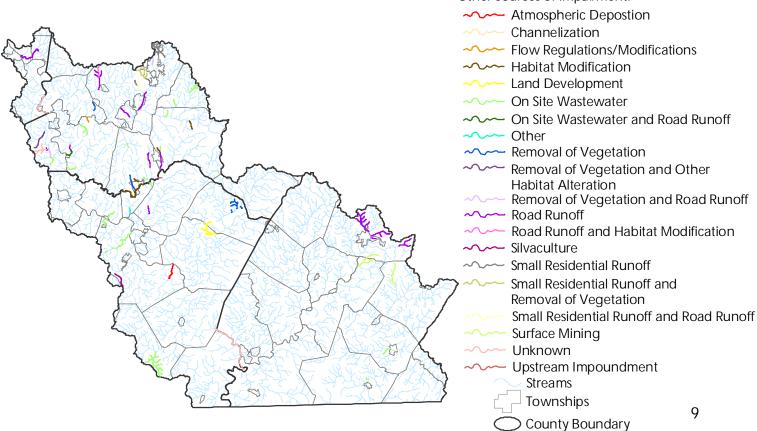
Abandoned Mine Land ⁷

Coal mining in Pennsylvania began in the mid-1700's. Pennsylvania is the fourth largest coal producer in the United States, producing over 69.5 million tons in 1995 in 878 mining operations. The environmental legacy of hundreds of years of coal mining in PA includes over 2,400 miles of PA's 84,000 miles of streams effected by acid mine drainage from old coal mining operations. Acid mine drainage in the single largest source of water pollution in the state. Since 1967, Pennsylvania and the federal government have invested close to \$500 million to correct problems from abandoned surface and deep mines. There are acid mine drainage treatment plants around the state to treat acid mine drainage discharges.



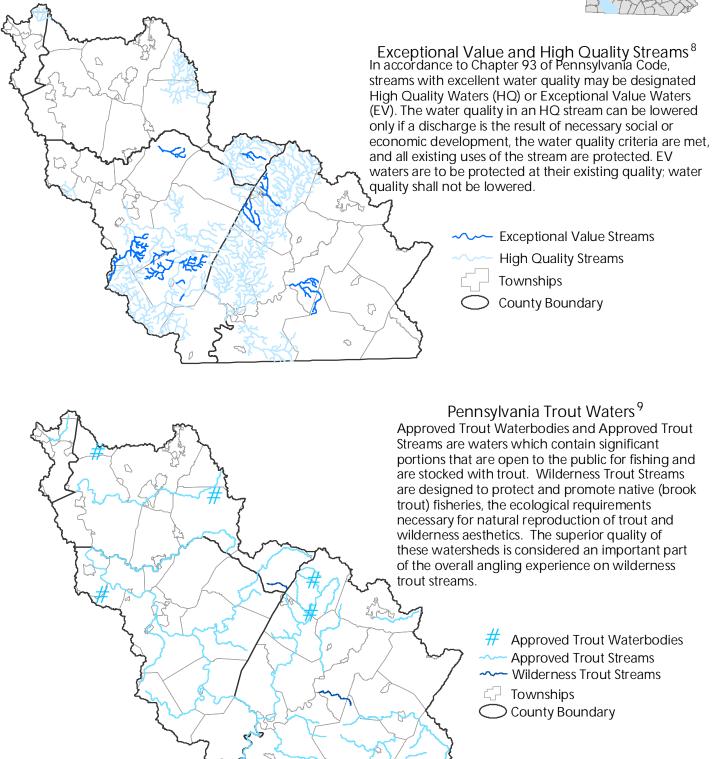




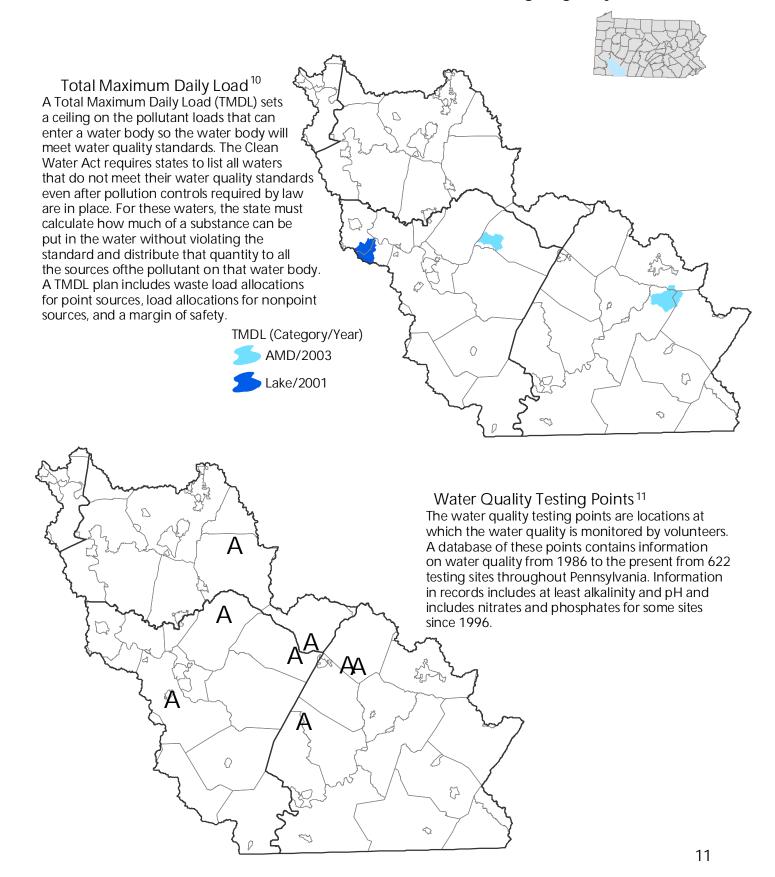
















Water Resource Points 12

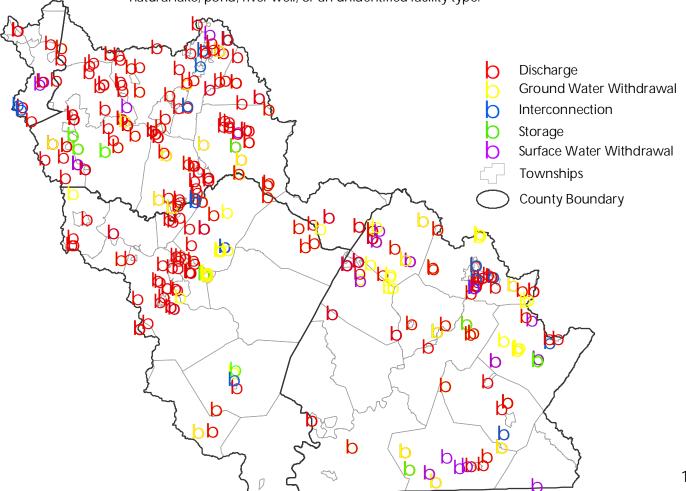
A Water Resource is a DEP primary facility type related to the Water Use Planning Program. The sub-facility types related to Water Resources that are included are:

Discharge: represents the return of water used at a Water Resources primary facility. The subfacility type may be a sewage treatment plant, instream discharge, spray irrigation field, groundwater recharge, on-lot septic or an unidentified facility type.

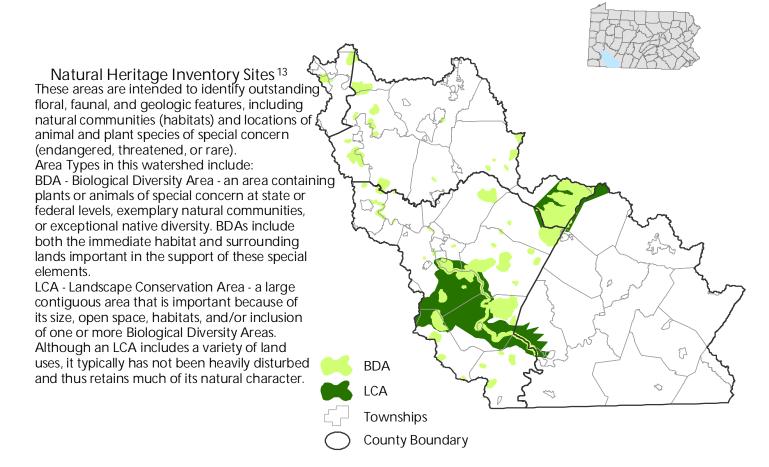
Ground Water Withdrawal: represents the withdrawal of water used at a Water Resources primary facility. The subfacility type may be a well, spring, quarry, infiltration gallery, deep mine, surface mine or an unidentified facility type.

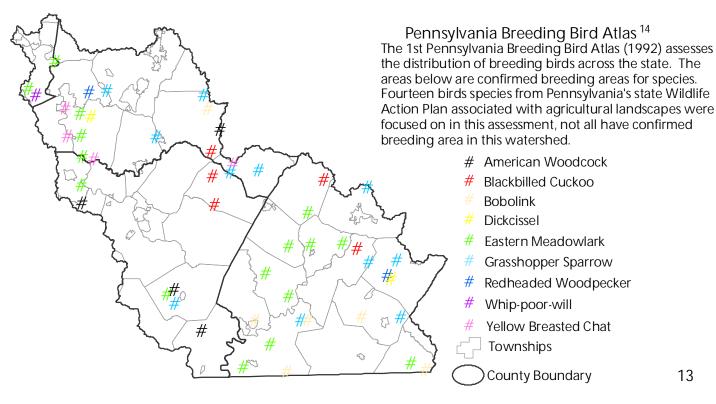
Interconnection: represents the point of interconnection between Water Resources primary facilities. The subfacility type may be for an interconnection between two public water supply agencies or between a public water supply agency and a commercial or industrial water user.

Storage: represents the storage of water used at a Water Resources primary facility. The subfacility type represents raw or treated water storage and may be a quarry, standpipe, open off-stream reservoir, closed off-stream reservoir, instream reservoir, hydroelectric dam, natural lake, pond, silt dam, hydroelectric pumped storage or an unidentified facility type. Surface Water Withdrawal: represents the withdrawal of water used at a Water Resources primary facility. The subfacility type may be an instream diversion, intake from a dam, natural lake, pond, river well, or an unidentified facility type.

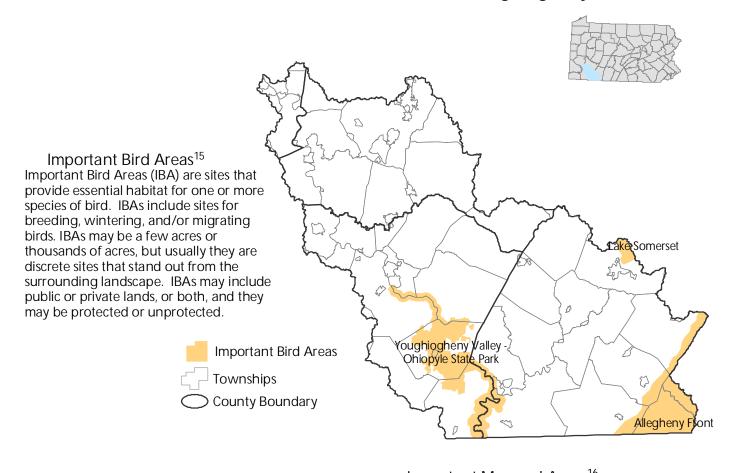


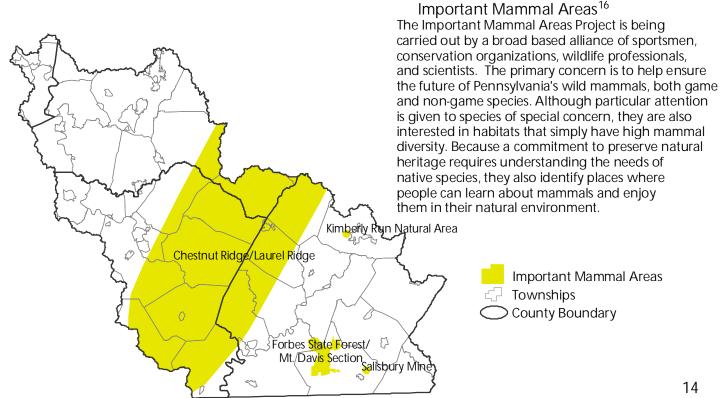












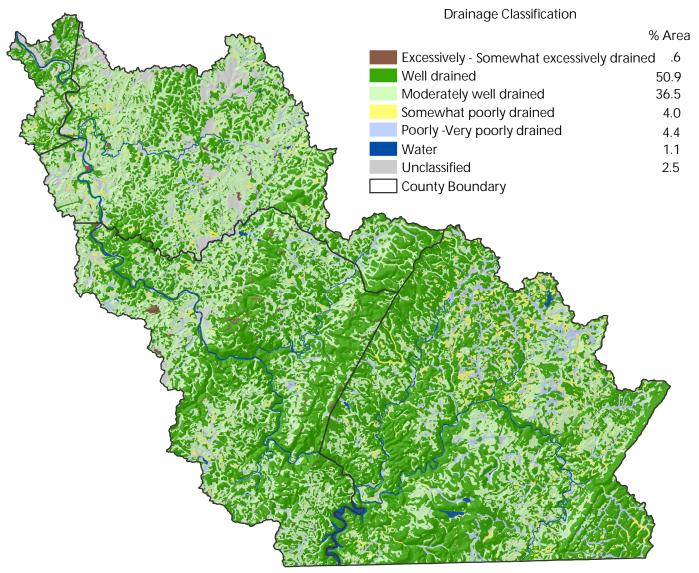


Soils 17



Drainage Classification

Drainage class (natural) refers to the frequency and duration of wet periods under conditions similar to those under which the soil formed. Alterations of the water regime by human activities, either through drainage or irrigation, are not a consideration unless they have significantly changed the morphology of the soil. Seven classes of natural soil drainage are recognized -- excessively drained, somewhat excessively drained, well drained, moderately well drained, somewhat poorly drained, poorly drained, and very poorly drained. These classes are defined in the "Soil Survey Manual."

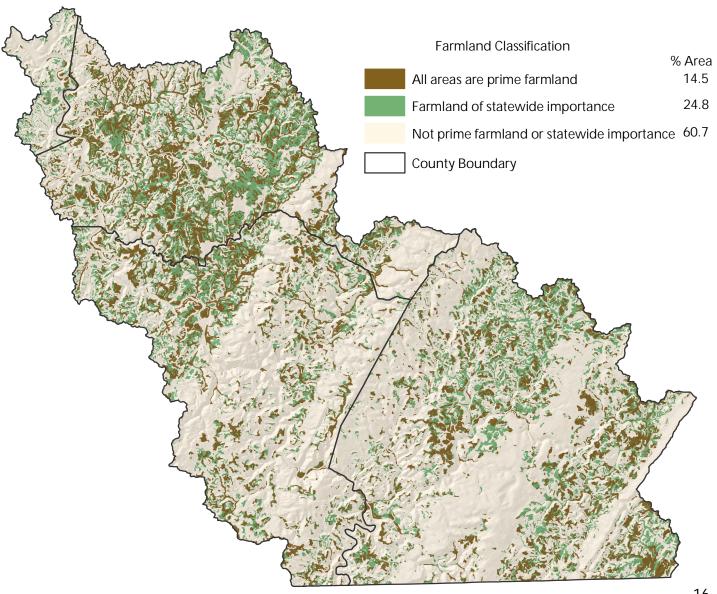






Farmland Classification

Farmland classification identifies soil map units as prime farmland, farmland of statewide importance, farmland of local importance, or unique farmland. Farmland classification identifies the location and extent of the most suitable land for producing food, feed, fiber, forage, and oilseed crops. NRCS policy and procedures on prime and unique farmlands are published in the Federal Register, Vol. 43, No. 21, January 31, 1978.



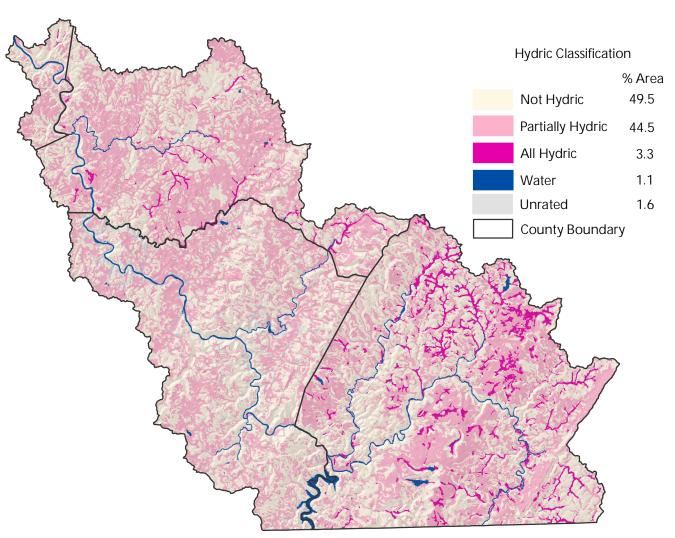




Hydric Soil Classification

This rating provides an indication of the proportion of the map unit that meets criteria for hydric soils. Map units that are dominantly made up of hydric soils may have small areas, or inclusions, of nonhydric soils in the higher positions on the landform, and map units dominantly made up of nonhydric soils may have inclusions of hydric soils in the lower positions on the landform.

Hydric soils are defined by the National Technical Committee for Hydric Soils (NTCHS) as soils that formed under conditions of saturation, flooding, or ponding long enough during the growing season to develop anaerobic conditions in the upper part (Federal Register, 1994). These soils, under natural conditions, are either saturated or inundated long enough during the growing season to support the growth and reproduction of hydrophytic vegetation.

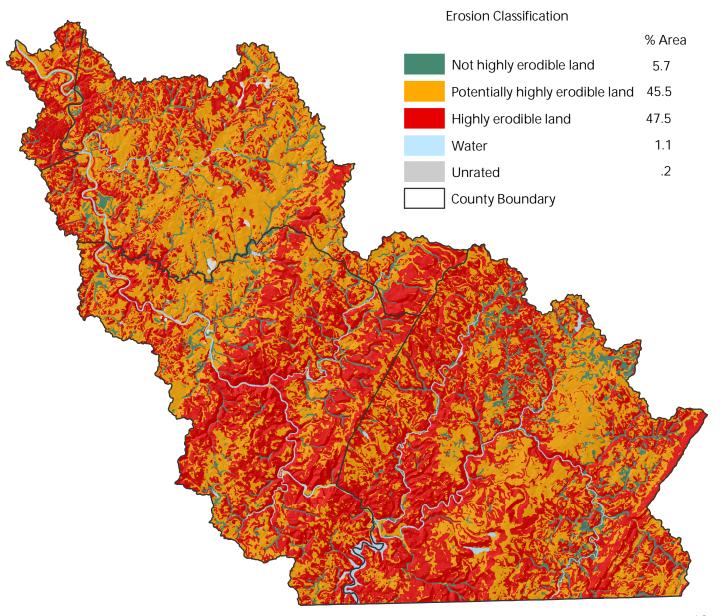






Highly Erodible Land

A soil map with an erodibilty index (EI) of 8 or greater is considered to be highly erodible land (HEL). The EI for a soil map unit is determined by dividing the potential erodibility for the soil map unit by the soil loss tolerance (T) value established for the soil in the FOTG as of January 1, 1990. Potential erodibility is based on default values for rainfall amount and intensity, percent and length of slope, surface texture and organic matter, permeability, and plant cover. Actual erodibility and EI for any specific map unit depends on the actual values for these properties.

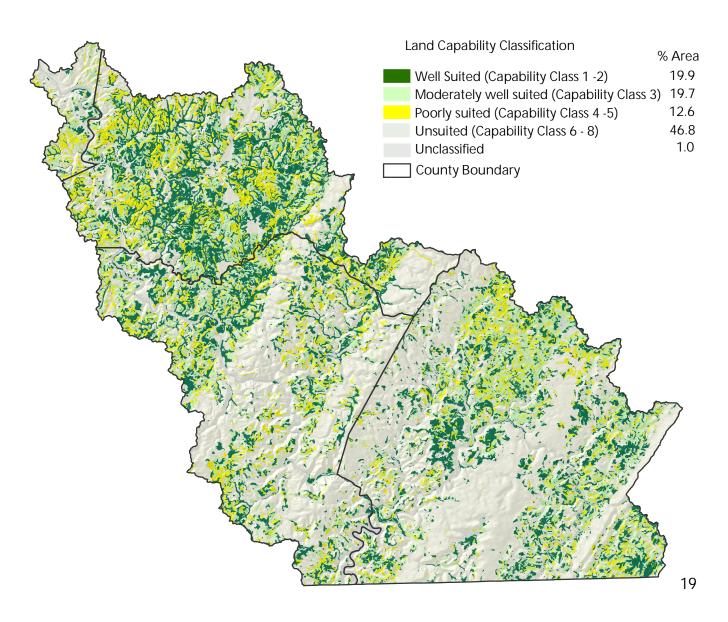




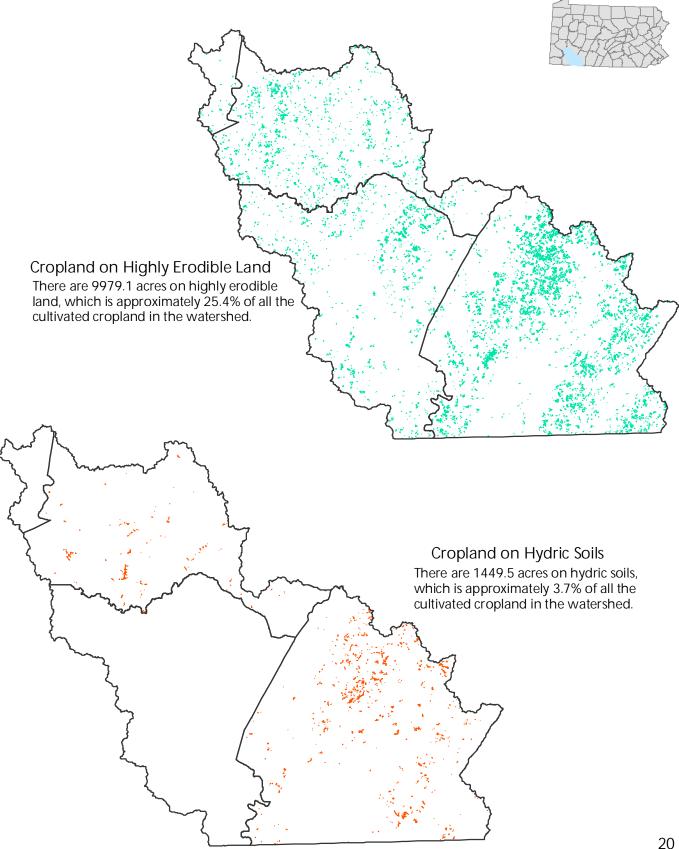


Land Capability Classification

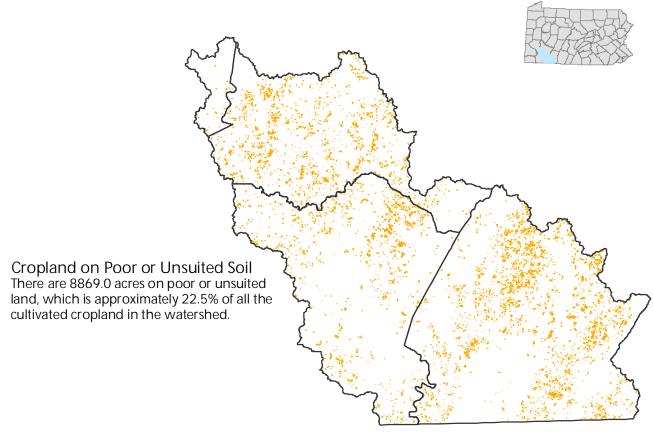
Land capability classification shows, in a general way, the suitability of soils for most kinds of field crops. Crops that require special management are excluded. The soils are grouped according to their limitations for field crops, the risk of damage if they are used for crops, and the way they respond to management. The criteria used in grouping the soils do not include major and generally expensive landforming that would change slope, depth, or other characteristics of the soils, nor do they include possible but unlikely major reclamation projects. Capability classification is not a substitute for interpretations that show suitability and limitations of groups of soils for rangeland, for woodland, and for engineering purposes.

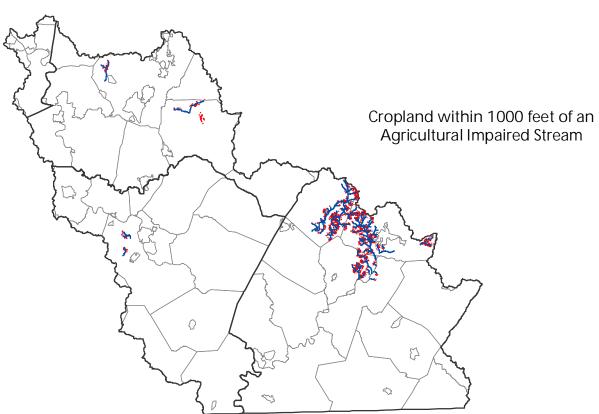
















Resource Concerns

Major resource concerns in the area include:

- erosion
- reduction of organic matter on cropland
- land slippage
- acid mine drainage
- sedimentation
- gullying
- surface compaction
- productivity of soils

Conservation Practices

Common conservation practices for cropland:

- crop rotation
- contour farming
- conservation tillage
- buffers
- nutrient management
- cover crops
- diversions
- grassed waterways

Common conservation practices for pastureland:

- prescribed grazing
- watering systems
- fencing
- manage livestock access to streams
- pasture plantingnutrient management





PRS Performance Measures 18

	FY99	FY00	FY01	FY02	FY03	FY04	FY05	FY06	Total
Total Conservation Systems Planned (acres)	1340	6435	4891	5844	5240	NA	4500	5517	33,767
Total Conservation Systems Applied (acres)	706	1730	5321	6064	4694	NA	3372	3346	25,233
	Key Co	onserva	tion Tre	atment	S				
Waste Storage Facility (number)	3	1	6	2	4	0	1	1	18
Riparian Forest Buffer (acres)	0	206	80	178	164	5	38	89	760
Erosion Control Total Soils Saved (tons/year)	47	596	1545	3797	2187	NA	NA	NA	8,172
Nutrient Management (acres)	0	166	1386	2117	4653	292	461	119	9,194
Pest Management (acres)	0	0	129	14	0	0	143	378	664
Prescribed Grazing (acres)	192	561	747	313	823	328	612	388	3,964
Tree and Shrub Establishment (acres)	0	2	58	131	52	1	0	62	306
Residue Management (acres)	65	605	868	184	409	0	452	470	3,053
Wildlife Habitat (acres)	247	207	1668	2512	1275	40	491	520	6,960
Wetlands Created, Restored, or Established	0	2	44	35	55	3	41	1	181
	Acres in	Conse	rvation	Prograr	ns				
Conservation Technical Assistance									
Planned	449	3557	2575	3435	3857	NA	1651	3638	19,162
Applied	256	1036	3037	3076	2748	NA	1810	1747	13,710
Conservation Reserve Program									
Planned	586	131	1497	1792	829	NA	1048	1295	7,178
Applied	0	0	1372	2584	1042	NA	526	817	6,341
Environmental Quality Incentive Program									
Planned	84	362	108	0	210	NA	1850	548	3,162
Applied	157	326	108	58	276	NA	574	577	2,076
Farmland Protection Policy/Farm and Ranch	Lands Pr	otection F	rogram						
Planned	110	116	52	0	0	NA	0	0	278
Applied	110	0	169	0	0	NA	0	0	279
Forestry Incentive Program									
Planned	0	0	32	0	0	NA	0	0	32
Applied	0	0	32	50	3	NA	0	0	85
Grasslands Reserve Program									
Planned				0	0	NA	49	0	49
Applied				0	0	NA	49	0	49
Grazing Lands Conservation Initiative									
Planned	165	1162	938						
Applied	138	389	1010						
Wildlife Habitat Incentive Program									
Planned	0	98					27		192
Applied	0	51	33	13	24	NA	22	0	143
Wetlands Reserve Program									
Planned	0	0					0		0
Applied	0	0	0	0	0	NA	0	0	0





Social and Census Data 19

Land in farms (acres)						
Land in farms (acres)			Fayette	Somerset	Westmoreland	Total
Total cropland (acres) 902 3,328 65,038 32,001 101,269	Farms (number)	22	484	576	418	1,500
Principal operator by primary occupation	Land in farms (acres)	1,588	61,892	107,642	46,649	217,771
Tarming (number) 10 22 341 201 574		902	3,328	65,038	32,001	101,269
Tarms by Size	' ' ' ' ' ' ' '					
1 to 9 acres	-		22	341	201	574
10 to 49 acres	Farms b					
50 to 179 acres 6 217 255 197 675 180 to 499 acres 2 74 151 58 285 500 to 999 acres 0 12 31 9 52 1,000 acres or more 0 6 11 2 19 Livestock and Poultry Cattle and calves inventory (farms) 6 305 353 199 863 Cattle and calves inventory - Milk cows (farms) 5 248 162 138 553 Cattle and calves inventory - Milk cows (farms) 0 34 154 34 222 Hogs and pigs inventory (farms) 1 46 48 32 127 Sheep and lambs inventory (farms) 2 29 31 28 90 Layers 20 weeks old and older inventory (farms) 3 39 60 38 140 Broilers and other meat-type chickens sold (farms) 0 3 3 6 12 Corp Harvested						118
180 to 499 acres 2 74 151 58 285 500 to 999 acres 0 12 31 9 52 1,000 acres or more 0 6 11 2 19 Livestock and Poultry Cattle and calves inventory (farms) 6 305 353 199 863 Cattle and calves inventory - Beef cows (farms) 5 248 162 138 553 Cattle and calves inventory - Milk cows (farms) 0 34 154 34 222 Hogs and pigs inventory (farms) 1 46 48 32 127 Sheep and lambs inventory (farms) 2 29 31 28 90 Layers 20 weeks old and older inventory (farms) 3 39 60 38 140 Broilers and other meat-type chickens sold (farms) 0 3 3 6 12 Crops Harvested Corn for grain (acres) 44 3756 6775 4511 15,086 Corn for grain (acres) 11 1700 7066 1235 10,012						
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Cattle and calves inventory - Beef cows (farms) 5 248 162 138 553 Cattle and calves inventory - Milk cows (farms) 0 34 154 34 222 Hogs and pigs inventory (farms) 1 46 48 32 127 Sheep and lambs inventory (farms) 2 29 31 28 90 Layers 20 weeks old and older inventory (farms) 3 39 60 38 140 Broilers and other meat-type chickens sold (farms) 0 3 3 6 12 Crops Harvested Corn for grain (acres) 44 3756 6775 4511 15,086 Corn for grain (acres) 44 3756 6775 4511 15,086 Corn for grain (acres) 11 1700 7066 1235 10,012 Wheat for grain (acres) 18 180 67 722 987 Oats for grain (acres) 19 592 3511 1091 5,213 Barley for grain (acres)		nd Poult				
Cattle and calves inventory - Milk cows (farms) 0 34 154 34 222 Hogs and pigs inventory (farms) 1 46 48 32 127 Sheep and lambs inventory (farms) 2 29 31 28 90 Layers 20 weeks old and older inventory (farms) 3 39 60 38 140 Crops Harvested Crops Harvested Corn for grain (acres) 44 3756 6775 4511 15,086 Corn for grain (acres) 44 3756 6775 4511 15,086 Corn for grain (acres) 11 1700 7066 1235 10,012 Wheat for grain (acres) 18 180 67 722 987 Oats for grain (acres) 18 180 67 722 987 Oats for grain (acres) 1 135 599 158 893 Soybeans for beans (acres) 4 561 712 1890 3,167 Fo	Cattle and calves inventory (farms)	6	305	353	199	863
Hogs and pigs inventory (farms)	Cattle and calves inventory - Beef cows (farms)	5	248	162	138	553
Sheep and lambs inventory (farms) 2 29 31 28 90 Layers 20 weeks old and older inventory (farms) 3 39 60 38 140 Crops Harvested Crops Harvested Corn for grain (acres) 44 3756 6775 4511 15,086 Corn for silage or greenchop (acres) 11 1700 7066 1235 10,012 Wheat for grain, all (acres) 18 180 67 722 987 Oats for grain (acres) 19 592 3511 1091 5,213 Barley for grain (acres) 1 135 599 158 893 Soybeans for beans (acres) 4 561 712 1890 3,167 Forage - land used for all hay and all haylage, grass silage, and greenchop (acres) 364 18,389 28,979 12,591 60,323 Vegetables harvested for sale (acres) 42 325 90 334 791 Land in orchards (acres) 572 25,731 46,919 <td>Cattle and calves inventory - Milk cows (farms)</td> <td>0</td> <td>34</td> <td>154</td> <td>34</td> <td>222</td>	Cattle and calves inventory - Milk cows (farms)	0	34	154	34	222
Layers 20 weeks old and older inventory (farms) 3 39 60 38 140 Crops Harvested Crops Harvested Corn for grain (acres) 44 3756 6775 4511 15,086 Corn for silage or greenchop (acres) 11 1700 7066 1235 10,012 Wheat for grain, all (acres) 18 180 67 722 987 Oats for grain (acres) 19 592 3511 1091 5,213 Barley for grain (acres) 1 135 599 158 893 Soybeans for beans (acres) 4 561 712 1890 3,167 Forage - land used for all hay and all haylage, grass silage, and greenchop (acres) 364 18,389 28,979 12,591 60,323 Vegetables harvested for sale (acres) 42 325 90 334 791 Land in orchards (acres) 572 25,731 46,919 22,704 95,926 Farm Operator by Ethnicity	Hogs and pigs inventory (farms)	1	46	48	32	127
Broilers and other meat-type chickens sold (farms) 0 3 3 6 12	Sheep and lambs inventory (farms)	2	29	31	28	90
Crops Harvested Corn for grain (acres) 44 3756 6775 4511 15,086 Corn for silage or greenchop (acres) 11 1700 7066 1235 10,012 Wheat for grain, all (acres) 18 180 67 722 987 Oats for grain (acres) 19 592 3511 1091 5,213 Barley for grain (acres) 1 135 599 158 893 Soybeans for beans (acres) 4 561 712 1890 3,167 Forage - land used for all hay and all haylage, grass silage, and greenchop (acres) 364 18,389 28,979 12,591 60,323 Vegetables harvested for sale (acres) 42 325 90 334 791 Land in orchards (acres) 5 47 67 53 172 Total cropland harvested (acres) 572 25,731 46,919 22,704 95,926 Farm Operator by Ethnicity White 31 683 897 598 <	Layers 20 weeks old and older inventory (farms)	3	39	60	38	140
Corn for grain (acres) 44 3756 6775 4511 15,086 Corn for silage or greenchop (acres) 11 1700 7066 1235 10,012 Wheat for grain, all (acres) 18 180 67 722 987 Oats for grain (acres) 19 592 3511 1091 5,213 Barley for grain (acres) 1 135 599 158 893 Soybeans for beans (acres) 4 561 712 1890 3,167 Forage - land used for all hay and all haylage, grass silage, and greenchop (acres) 364 18,389 28,979 12,591 60,323 Vegetables harvested for sale (acres) 42 325 90 334 791 Land in orchards (acres) 5 47 67 53 172 Total cropland harvested (acres) 572 25,731 46,919 22,704 95,926 Farm Operator by Ethnicity White 31 683 897 598 2,209 Black or African American 0 0 0 0 0	Broilers and other meat-type chickens sold (farms)	0	3	3	6	12
Corn for grain (acres) 44 3756 6775 4511 15,086 Corn for silage or greenchop (acres) 11 1700 7066 1235 10,012 Wheat for grain, all (acres) 18 180 67 722 987 Oats for grain (acres) 19 592 3511 1091 5,213 Barley for grain (acres) 1 135 599 158 893 Soybeans for beans (acres) 4 561 712 1890 3,167 Forage - land used for all hay and all haylage, grass silage, and greenchop (acres) 364 18,389 28,979 12,591 60,323 Vegetables harvested for sale (acres) 42 325 90 334 791 Land in orchards (acres) 5 47 67 53 172 Total cropland harvested (acres) 572 25,731 46,919 22,704 95,926 Farm Operator by Ethnicity White 31 683 897 598 2,209 Black or African American 0 0 0 0 0	Crops Hai	rvested				
Corn for silage or greenchop (acres) 11 1700 7066 1235 10,012 Wheat for grain, all (acres) 18 180 67 722 987 Oats for grain (acres) 19 592 3511 1091 5,213 Barley for grain (acres) 1 135 599 158 893 Soybeans for beans (acres) 4 561 712 1890 3,167 Forage - land used for all hay and all haylage, grass silage, and greenchop (acres) 364 18,389 28,979 12,591 60,323 Vegetables harvested for sale (acres) 42 325 90 334 791 Land in orchards (acres) 5 47 67 53 172 Total cropland harvested (acres) 572 25,731 46,919 22,704 95,926 Farm Operator by Ethnicity White 31 683 897 598 2,209 Black or African American 0 0 0 0 0 Hispanic 0 <td>·</td> <td></td> <td>3756</td> <td>6775</td> <td>4511</td> <td>15,086</td>	·		3756	6775	4511	15,086
Wheat for grain, all (acres) 18 180 67 722 987 Oats for grain (acres) 19 592 3511 1091 5,213 Barley for grain (acres) 1 135 599 158 893 Soybeans for beans (acres) 4 561 712 1890 3,167 Forage - land used for all hay and all haylage, grass silage, and greenchop (acres) 364 18,389 28,979 12,591 60,323 Vegetables harvested for sale (acres) 42 325 90 334 791 Land in orchards (acres) 5 47 67 53 172 Total cropland harvested (acres) 572 25,731 46,919 22,704 95,926 Farm Operator by Ethnicity White 31 683 897 598 2,209 Black or African American 0 0 0 0 0 Hispanic 0 0 0 0 0 American Indian/Alaskan Native 0 0 0 0 0 Pacific Islander 0 0	-	11				
Barley for grain (acres) 1 135 599 158 893 Soybeans for beans (acres) 4 561 712 1890 3,167 Forage - land used for all hay and all haylage, grass silage, and greenchop (acres) 364 18,389 28,979 12,591 60,323 Vegetables harvested for sale (acres) 42 325 90 334 791 Land in orchards (acres) 5 47 67 53 172 Total cropland harvested (acres) 572 25,731 46,919 22,704 95,926 Farm Operator by Ethnicity White 31 683 897 598 2,209 Black or African American 0 0 0 0 0 Hispanic 0 0 0 0 0 American Indian/Alaskan Native 0 0 0 0 Pacific Islander 0 0 0 0 0		18	180	67		987
Soybeans for beans (acres) 4 561 712 1890 3,167 Forage - land used for all hay and all haylage, grass silage, and greenchop (acres) 364 18,389 28,979 12,591 60,323 Vegetables harvested for sale (acres) 42 325 90 334 791 Land in orchards (acres) 5 47 67 53 172 Total cropland harvested (acres) 572 25,731 46,919 22,704 95,926 Farm Operator by Ethnicity White 31 683 897 598 2,209 Black or African American 0 0 0 0 0 Asian 0 0 0 0 0 0 Hispanic 0 1 14 7 22 American Indian/Alaskan Native 0 0 0 0 0 Pacific Islander 0 0 0 0 0 0	Oats for grain (acres)	19	592	3511	1091	5,213
Forage - land used for all hay and all haylage, grass silage, and greenchop (acres) 364 18,389 28,979 12,591 60,323 Vegetables harvested for sale (acres) 42 325 90 334 791 Land in orchards (acres) 5 47 67 53 172 Total cropland harvested (acres) 572 25,731 46,919 22,704 95,926 Farm Operator by Ethnicity White 31 683 897 598 2,209 Black or African American 0 0 0 4 4 Asian 0 0 0 0 0 Hispanic 0 1 14 7 22 American Indian/Alaskan Native 0 0 0 0 0 Pacific Islander 0 0 0 0 0 0	Barley for grain (acres)	1	135	599	158	893
grass silage, and greenchop (acres) 364 18,389 28,979 12,591 60,323 Vegetables harvested for sale (acres) 42 325 90 334 791 Land in orchards (acres) 5 47 67 53 172 Total cropland harvested (acres) 572 25,731 46,919 22,704 95,926 Farm Operator by Ethnicity White 31 683 897 598 2,209 Black or African American 0 0 0 4 4 Asian 0 0 0 0 0 Hispanic 0 1 14 7 22 American Indian/Alaskan Native 0 0 1 0 0 Pacific Islander 0 0 0 0 0	Soybeans for beans (acres)	4	561	712	1890	3,167
Vegetables harvested for sale (acres) 42 325 90 334 791 Land in orchards (acres) 5 47 67 53 172 Total cropland harvested (acres) 572 25,731 46,919 22,704 95,926 Farm Operator by Ethnicity White 31 683 897 598 2,209 Black or African American 0 0 0 4 4 Asian 0 0 0 0 0 Hispanic 0 1 14 7 22 American Indian/Alaskan Native 0 0 0 0 0 Pacific Islander 0 0 0 0 0 0						
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White 31 683 897 598 2,209 Black or African American 0 0 0 4 4 Asian 0 0 0 0 0 Hispanic 0 1 14 7 22 American Indian/Alaskan Native 0 0 1 0 1 Pacific Islander 0 0 0 0 0 0				46,919	22,704	95,926
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Hispanic 0 1 14 7 22 American Indian/Alaskan Native 0 0 1 0 1 Pacific Islander 0 0 0 0 0 0			-	-	-	
American Indian/Alaskan Native 0 0 1 0 1 Pacific Islander 0 0 0 0 0		-		-	-	
Pacific Islander 0 0 0 0 0						
					-	0
	Women	10	158	249	168	585





Partnership Groups:

A cooperative project involving NRCS and conservation partners, including:

- State Conservation Commission
- Pennsylvania Department of Environmental Protection
- Pennsylvania Game Commission
- Pennsylvania Grazing/Forage Lands Conservation Coalition
- Pennsylvania Fish & Boat Commission





Footnotes/Bibliography

All data is provided "as is". There is no warranties, express or implied, including the warranty of fitness for a particular purpose, accompanying this document. Use for planning purpose only.

1. Common Resource Area

Common Resource Area (CRA) delineation is defined as a geographical area where resource concerns, problems, or treatment needs are similar. More information can be found online at http://soils.usda.gov/survey/geography/cra.html

2. National Elevation Dataset (NED)

The NED is a seamless mosaic of the best-available elevation data. The primary source data were the USGS 7.5-minute (30-meter or 10-meter resolution) DEM's. A hillshade grid was also created using the DEM and used to creare a 3-D effect. More inforantion on NED can be found online at http://ned.usgs.gov/

3. Land Use / Land Cover 2001

Land Use / Land Cover map was created using the National Land Cover Dataset. The National Land Cover Dataset was compiled from Landsat satellite TM imagery with a spatial resolution of 30 meters and supplemented by various ancillary data (where available). More inforamtion can be found online at http://landcover.usgs.gov/

4. Average Annual Precipitation

The average annual precipitation data for this map layer were produced through a partnership between NRCS and the Spatial Climate Analysis Service at Oregon State University (OSU). The average annual precipitation is from 1961 through 1990. More information can be found online at http://www.ncgc.nrcs.usda.gov/products/datasets/climate/index.html

5. National Wetlands Inventory (NWI)

The NWI maps do not show all wetlands since the maps are derived from aerial photointerpretation with varying limitations due to scale, photo quality, inventory techniques, and other factors. More information can be found online at http://www.fws.gov/nwi/

6. Impaired Streams

Impaired Streams were derived from Pennsylavania Department of Protection Office of Water Management, 2006 list on Non-Attaining Streams. More information can be found on DEP website at http://www.depweb.state.pa.us/dep/site/default.asp

7. Abandoned Mine Land

Abandoned Mine Land data was received from the Office of Surface Mining. The data set shows the approximate location of Abandoned Mine Land Problem Areas containing public health, safety, and public welfare problems created by past coal mining. More information can be found online at http://www.osmre.gov/osmaml.htm

8. Exceptional Value and High Quality Streams

Exceptional Value and High Quality Streams were taken from the Chapter 93 data layer received from Pennsylvania Department of Environmental Protection. For more information on what qualifies a stream as exceptional value or high quality or any information on Chapter 93 streams go to http://www.pacode.com/secure/data/025/chapter93/chap93toc.html





Footnotes/Bibliography

9. Pennsylvania Trout Waters

Pennsylvania Trout Water data is compiled by the Pennsylvania Fish and Boat Commission. This layer was created based on the 1:24000 National Hydropahy Dataset (NHD) water bodies layer. More information can be found online at

http://www.fish.state.pa.us/fishpub/summary/troutwaters.html

10. Total Maximun Daily Load (TMDL)

TMDL is the sum of the individual waste load allocations and load allocations which would not produce a violation of water quality standards. The data used is from 2003, the PA Department of Environmental Protection is currently working on updating the GIS data available. More information can be found on TMDL locations in PA at http://www.dep.state.pa.us/watermanagement_apps/tmdl/, and/or nationally at http://www.epa.gov/owow/tmdl/

11. Water Quality Testing Points

Water Quality Testing Points monitor water quality with emphasis on stream acidity in Pennsylvania with an assoiciated database. The database contains more than 33,466 records on water quality from 1986 to the present from 622 testing sites throughout Pennsylvania. Information in the records includes alkalinity and Ph and includes nitrates and phosphates for some sites since 1996. The information is maintained by the Alliance for Aquatic Resource Monitoring. More information can be found online at http://alpha.dickinson.edu/storg/allarm/allarm%20projects/database.htm

12. Water Resource Points

A Water Resource is a DEP primary facility type related to the Water Use Planning Program. More information can be found http://www.depweb.state.pa.us/dep/site/default.asp

13. Natural Heritage Inventory Sites

The Natural Areas polygons were developed by the Pennsylvania Natural Heritage Program (PNHP) County Natural Heritage Inventory (CNHI) Program. Natural Areas were identified using map and air photo interpretation, aerial rconnaissance, and field surveys. More information and county reports can be found online at http://www.naturalheritage.state.pa.us/

14. Pennsylvania Breeding Bird Atlas

Data was taken for the 1st Pennsylvania Breeding Bird Atlas (1992). For this watershed assessment, fourteen bird species were chosen to be focused on. More information about all bird species can be obtained at http://www.carnegiemnh.org/atlas/home.htm

15. Important Bird Areas

The Important Bird Areas Program (IBA) is a global effort to identify and conserve areas that are vital to birds and other biodiversity. For more information nationally and/or on the state level go to http://www.audubon.org/bird/iba/

16. Important Mammal Areas

Important Mammal Areas Project, IMAP, the first program of it's kind, was created by the Mammal Technical Committee of the Pennsylvania Biological Survey (PaBS). For more inforamtion go online to http://www.pawildlife.org/imap.htm



Youghiogheny Watershed



Footnotes/Bibliography

17. Soils

Soil Survey spatial and tabular data were used for the following survey areas:

Allegheny County (PA003)

Fayette County (PA051)

Somerset County (PA111)

Westmoreland County (PA129)

Spatial and tabular data an be downloaded at http://soildatamart.nrcs.usda.gov/

18. Performance Results System (PRS)

PRS data was extracted from PRS by year, conservation system, conservation practice, and proagrams by hydrologic unit code. More information can be found online at the PRS homepage http://ias.sc.egov.usda.gov/prshome/

19. Social and Census Data

Ag census data and ethnicity data were downloaded from the National Agricultural Statistics Service (NASS). The data was adjusted by percent of Hydrologic unit in the county. More inforamtion can be found online at http://www.nass.usda.gov/Census_of_Agriculture/index.asp